Course description

G780
ACS 2000 Medium Voltage Drive Service & Commissioning

Course goal

The goal of the course is to introduce and instruct the service and commissioning engineer to the ACS2000. To allow them to learn in a safe and instructive environment the techniques required to carry out the correct procedure in commissioning, servicing and maintaining the ACS2 000.

Learning objectives

Upon completion of this course the participants will be able to:

- Identify drive components, configure settings and understand the drive system topology
- Know the protection and safety concepts of the drive
- Operate the drive, energizing, de-energizing, start, stop and adjust speeds
- Carry out service and maintenance work as well as fault-tracing be able to locate and replace faulty hardware components
- Carry out the commissioning of the ACS 2000 drive system in the most efficient manner using the corresponding tools
- Perform basic troubleshooting tasks, using data loggers, fault loggers, and DriveWindows
- After completion of the certification program the participants are allowed to commissioning the medium voltage drive system

Participant profile

This training is targeted at Service and Commissioning engineers, testing and maintenance personnel ABB personnel only

Prerequisites

Engineers with previous working experience on ABB drive's (low or medium voltage) and motors.

Good personal computer skills and English knowledge are essential.

Laptops recommended (with DriveWindows and DriveDebug loaded) but not essential.

Topics

- Product overview
- Drive Technology
- Control Hardware
- Power Hardware
- Installation of the Drive
- Operation
- Application Software
- Software Tools
- Protection Concept
- Commissioning
- Preventative Maintenance
- Troubleshooting

Course type and methods

This is an instructor led course with lectures and demonstrations

Practical exercises with demonstration equipment
Visit of the factory test area

Duration

The duration is 4 days.

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Course outline

Day 1	Day 2	Day 3
■ Course overview	■ Operation	■ Hands-on training
■ Product overview	■ Application SW	■ Trouble Shooting
■ Control Hardware	■ SW Tools	■ Preventance Maintenance
■ Power Hardware	■ Protection Concept	■ Course conclusinn & feedback
■ Installation of the drive system	■ Commissioning	
	■ Factory Visit	

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